

Applicants: Ilya Trakht et al.
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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the specification:

Listing of Claims:

Claims 1-5. (Cancelled)

Claim 6. (Currently amended): A monoclonal antibody which specifically binds and forms a complex with TIP-2 antigen located on the surface of human cancer cells expressing TIP-2, wherein the monoclonal antibody binds ~~to the same extracellular domain of extracellularly to~~ TIP-2 ~~as does monoclonal antibody 27.B1 produced by hybridoma 27.B1 (ATCC Designation No. PTA-1599).~~

Claim 7. (Original): The monoclonal antibody 27.B1 produced by hybridoma 27.B1 (ATCC Designation No. PTA-1599).

Claim 8. (Cancelled)

Claim 9. (Previously presented): The hybridoma cell designated 27.B1 (ATCC Accession No. PTA-1599).

Claims 10-15. (Cancelled)

Claim 16. (Currently amended): A monoclonal antibody which specifically binds and forms a complex with TIP-2 antigen located on the surface of fixed human cancer cells expressing TIP-2, wherein the monoclonal antibody binds ~~to the same~~

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~~extracellular domain of intracellularly to TIP-2
as does monoclonal antibody 27.F7 produced by
hybridoma 27.F7 (ATCC Designation No. PTA-1598).~~

Claim 17. (Original): The monoclonal antibody 27.F7
produced by hybridoma 27.F7 (ATCC Designation No.
1598).

Claim 18. (Previously presented): The hybridoma cell
designated 27.F7 (ATCC Accession No. PTA-1598).

Claims 19-174. (Cancelled)

Claim 175. (Currently amended): A kit for detecting the
presence of TIP-2 ~~antigen~~-bearing cancer cells in
a sample comprising:

- a) a solid support having a plurality of
immobilized probes which may be the same or
different, wherein each probe comprises a
monoclonal antibody or Fab fragment thereof
which specifically binds and forms a complex
with TIP-2 ~~antigen~~ located on the surface of
human cancer cells; and
- b) a means for determining the presence of the
probe/TIP-2 ~~antigen~~ complex.

Claim 176. (Currently amended): The kit of claim 175,
wherein the probe binds extracellularly to the
~~same TIP-2 domain as does monoclonal antibody~~
~~27.B1 produced by hybridoma 27.B1 (ATCC~~
~~Designation No. PTA-1599)~~ or intracellularly to
TIP-2 on fixed cells as does monoclonal antibody
~~27.F7 produced by hybridoma 27.F7 (ATCC~~
~~Designation No. PTA-1598).~~

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- Claim 177. (Previously presented): The kit of claim 176, wherein the probe is a murine monoclonal antibody.
- Claim 178. (Previously presented): The kit of claim 176, wherein the probe is a chimeric monoclonal antibody.
- Claim 179. (Previously presented): The kit of claim 176, wherein the probe is a humanized monoclonal antibody.
- Claim 180. (Previously presented): The kit of claim 176, wherein the probe is a human monoclonal antibody.
- Claim 181. (Previously presented): The kit of claim 176, wherein the probe is human monoclonal antibody 27.B1 produced by hybridoma 27.B1 (ATCC Designation No. PTA-1599) or human monoclonal antibody 27.F7 produced by hybridoma 27.F7 (ATCC Designation No. PTA-1598).
- Claim 182. (Currently amended): The kit of claim 176, wherein the means for determining the presence of the probe/TIP-2 ~~antigen~~ complex comprises a detectably labeled antibody.
- Claim 183. (Currently amended): The kit of claim 176, wherein the means for determining the presence of the probe/TIP-2 ~~antigen~~ complex comprises a detectably labeled antibody which specifically binds to a monoclonal antibody directed to TIP-2 ~~antigen~~.

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Claim 184. (Previously presented): The kit of claim 182 or 183, wherein the detectable label is a radioactive isotope, enzyme, dye, biotin, fluorescent label or chemiluminescent label.